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Assistant Vice President  
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## UNION PACIFIC RAILROAD COMPANY



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December 20, 1993

Environmental Protection  
Nevada, Las Vegas

S. W. (STEVE) BERKI  
Director-Environmental Operations-  
Central  
G. A. (AVERY) GRIMES  
Director-Environmental Operations-  
Western  
L. A. (LANNY) SCHMID  
Director-Environmental Operations-  
Southern  
R. L. (RICK) EADES  
Director-Environmental Site Remediation  
N. D. (NORM) SILER  
Director-Environmental Technologies

Mr. Bennett Sloan  
Deputy Project Manager  
Chanen/Sverdrup  
900 Grier Drive  
Las Vegas, Nevada 89119

Dear Mr. Sloan:

Re: Excavation of Hydrocarbon Impacted Soils - Clark County  
Property, Las Vegas, Nevada

This letter is Union Pacific Railroad's (UPRR) reply to your  
request for documentation of excavated soils on Clark County's  
Property.

### EXCAVATION OVERVIEW

The excavated soil's task started on December 6, 1993 and  
was completed on December 9, 1993. Soil stained by hydrocarbon  
was identified and sampled on October 27 and 28, 1993, following  
exposure of the area during grading activity by Clark County's  
contractor. The contamination wasn't identified during our  
initial site assessment nor was it identified during our remedial  
action conducted before sale of the property.

Personnel from USPCI directed excavation of impacted  
materials at the request of UPRR. A trackhoe excavated soils to  
an approximated depth of 2.5 feet, and loaded into dump trucks  
provided by NEOSHO Construction Company. Two hundred thirty eight  
truckloads (approximately 3100 tons) of soil were removed from  
the County's property. Excavated soil removed, was thermally  
treated on UPRR's property with an on site Mobil Thermal  
Recycling Unit.

Excavation continued until all visual and olfactory  
indications of hydrocarbons were removed from the surface to 2.5  
foot soil horizons. Please refer to the attached map for the  
location of the excavation.

## SUMMARY AND CONCLUSION

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Upon completion of the excavation, two samples taken in areas typical of the excavation proved to be below 100 mg/kg: 30 total petroleum hydrocarbons (laboratory method 8015 modified for diesel). USPCI notified Chanen/Sverdrup of the completion of excavation on December 9, 1993. On December 13 and 14, 1993, thermally treated soil (238 truckloads) was returned to the excavation as backfill. Laboratory results showed that the excavated material had been successfully thermally treated. Clark County will be responsible for spreading and compaction of the material.

With respect to our field observation, and sampling results, remediation of the County's property is complete. Please call me at (402) 271-2234 if any questions arise. Thank.

Sincerely,



Glenn Thomas  
Manager Environmental Site Remediation

CC: Mr. Jim Moran, Senior Project Manager  
USPCI, Inc.  
5665 Flatiron Parkway  
Boulder, Colorado

Mr. Jim Najima  
Bureau of Waste Management  
Division of Environmental Protection  
333 W. Nye Lane  
Carson City, Nevada 89710

Mr. Dennis Tholen - Room 1200  
Mr. Joe Bearden - Los Angeles

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